



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D3456-1
Job Sheet 173732



Part No: D3456-1

Job Qty: 50 ea

Part Name: Washer



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 3/6/18

Job Tracking No:

Due Date: 3/30/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV A IPP A 05.10.03 New issue KJ/JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	50 pcs		3/30/18	0.00	0.00	Purchasing		AT 19/03/18
110	Packaging	50 pcs		3/30/18	0.00	0.00	Packaging2		AD 19/03/18
120	QC	50 pcs		3/30/18	0.00	0.00	QC6		11 MAR 12 2018
130	Packaging	50 pcs		3/30/18	0.00	0.00	Packaging3-1	5/030	8-89
140	QC21-SA	50 Ea		3/30/18	0.00	0.00	QC21		21 MAR 13 2018

Part Op 100 - Issue P/O: P/N: 91525A120 per Dwg D3456 Possible Supplier: McMaster-Carr

Descriptions: 110 - Ensure Material Release Note is attached

P/O: 39238

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MAR 07 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
91525A120	washer	50 pcs (1 ea)	100-Purchasing	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	91525A120	50	25	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS					
Part No. _____		Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐		
NCR No. _____		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐		
		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐		
	Large Fab ☐	Composite ☐	Supplier ☐				

Date : _____	Step #: _____	QTY Effective : _____	MRB (QSI042) Approval
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Description Work Order Deviation	Disposition	Completed By
Job No: 173732 Mfg Date: 03/12/18 Packaging Change No: Operation: Revision: Serial No/Batch: S050328 PART NO: D3456-1		Lead hand / Supervisor Approval Verification
		QC / QA Coordinator Approval

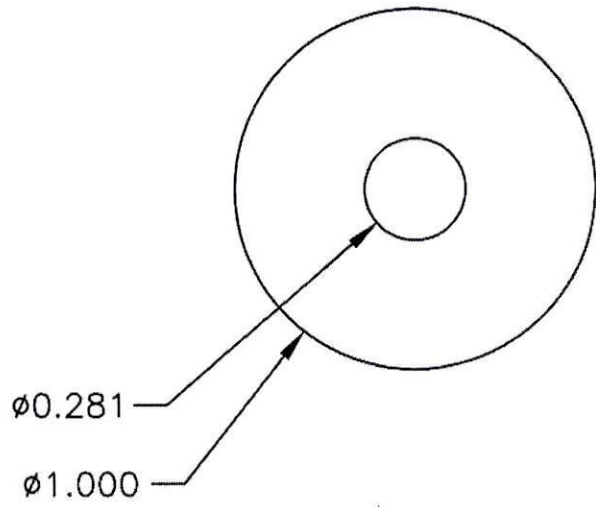
Root Cause		Washer	
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verifica ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Informati ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____		Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	



DESIGN CP	DRAWN BY CP	DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3456	REV. A SHEET 1 OF 1
DATE 05.09.01		TITLE WASHER	SCALE 2:1
A	05.09.01	NEW ISSUE	

RELEASED
05-09-06 *[Signature]*

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 173782 *MW*
18-03-06

D3456-1 WASHER

- 1) MATERIAL: 316 STAINLESS STEEL, 0.050" THICK
- 2) MAY PURCHASE McMASTER-CARR P/N 91525A120
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO039238

Supplier: MCM001-VU
McMaster-Carr Supply Co.
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO039238

PO Date: 3/7/18

Due Date: 3/12/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
MAR 08 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: 2% 10 Net 30
Freight Terms:
Special Comments:

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	92311A639	D2747	SS Set Screw	Firmed	3/12/18	250 pcs	0 pcs	250 pcs	\$0.626/pcs	\$156.50
2	91525A120		washer : AS PER DWG D3456 REV.A	Firmed	3/12/18	50 pcs	0 pcs	50 pcs	\$0.232/pcs	\$11.60
3	92311A564	D3533-1	Set Screw	Firmed	3/12/18	200 pcs	0 pcs	200 pcs	\$0.2374/pcs	\$47.48
4	6541K38		Ear Clamp receive pcs	Firmed	3/12/18	25 Ea	0 Ea	25 Ea	\$0.3832/Ea	\$9.58
5	6519T14	D5528-1	Tubing 10 pcs of 10 ft long	Firmed	3/12/18	10 Ea	0 Ea	10 Ea	\$48.20/Ea	\$482.00
6	98378A909	1/pk	Perforator Pin .129" X 2-1/2"	Firmed	3/12/18	12 Ea	0 Ea	12 Ea	\$5.92/Ea	\$71.04
7	188-FPSS- 1/4 20-3/8	92313A535 25/pk	Set Screw	Firmed	3/9/18	50 Ea	0 Ea	50 Ea	\$0.1628/Ea	\$8.14
Line Item Note please ship item overnight fed ex on acct: 151793240										
8	91292A127	50/pk	Socket Head Cap Screw, M5 x 0.8mm x 18mm receive ea	Firmed	3/12/18	50 Ea	0 Ea	50 Ea	\$0.528/Ea	\$26.40
9	90327A157	25/pk	Socket Head Cap Screw M8 x 1.25 x 20mm receive ea	Firmed	3/12/18	25 Ea	0 Ea	25 Ea	\$0.0812/Ea	\$2.03
10	90128A249	100/pk	Socket Head Cap Screw M5 x 0.8 x 25mm receive ea	Firmed	3/12/18	100 Ea	0 Ea	100 Ea	\$0.0812/Ea	\$8.12
11	92005A218	100/pk	Pan Head Screw M4 x 0.7 x 8mm receive ea	Firmed	3/12/18	100 Ea	0 Ea	100 Ea	\$0.0812/Ea	\$8.12
12	23065A504	SIZE: 0.3070"	Plug No-Go Gauge receive ea	Firmed	3/12/18	6 Ea	0 Ea	6 Ea	\$3.89/Ea	\$23.34

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PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
13	35355T26	1/pk	Anchor Shackle	Firmed	3/12/18	6 Ea	0 Ea	6 Ea	\$9.28/Ea	\$55.68
14	35685T55	1/pk	D-Shackle w/Elongated Body	Firmed	3/12/18	6 Ea	0 Ea	6 Ea	\$12.01/Ea	\$72.06
15	3440T55	50 ft	Lifting Cable	Firmed	3/12/18	50 Ea	0 Ea	50 Ea	\$1.34/Ea	\$67.00
16	3494T12		Lifting Thimble receive ea	Firmed	3/12/18	40 Ea	0 Ea	40 Ea	\$0.66/Ea	\$26.40
17	3755T17	2/pk	Lifting Oval Sleeve receive ea	Firmed	3/12/18	30 Ea	0 Ea	30 Ea	\$4.065/Ea	\$121.95
18	8948T12		Welded Master Link receive ea	Firmed	3/12/18	4 Ea	0 Ea	4 Ea	\$75.65/Ea	\$302.60
19	9657K393	6/pk	Compression Spring	Firmed	3/12/18	12 Ea	0 Ea	12 Ea	\$1.15666/Ea	\$13.88
20	98750A317	1/pk	All Thread receive ea	Firmed	3/12/18	20 Ea	0 Ea	20 Ea	\$2.58/Ea	\$51.60
21	92196A345	10/pk	Socket Head Cap Screw receive ea	Firmed	3/12/18	200 Ea	0 Ea	200 Ea	\$0.715/Ea	\$143.00
22	50715K677	50715K832	Flared Tube Fitting SS	Firmed	3/12/18	20 Ea	0 Ea	20 Ea	\$10.05/Ea	\$201.00
23	7856K77	25 ft	Heat Shrink Tubing Color Black	Firmed	3/12/18	25 pcs	0 pcs	25 pcs	\$1.0496/pcs	\$26.24
24	90177A218	50/pk	Split Ring Zinc-Plated Steel Split Ring 1" OD, 13/16" ID, 1/8" Thick	Firmed	3/12/18	50 Ea	0 Ea	50 Ea	\$0.2452/Ea	\$12.26
25	90174A113	25/pk	Retaining Pin	Firmed	3/12/18	50 Ea	0 Ea	50 Ea	\$0.2756/Ea	\$13.78
26	94975A162	1/pk	Quick Release Pin Quick Release Pin W/Lanyard	Firmed	3/12/18	12 Ea	0 Ea	12 Ea	\$4.49/Ea	\$53.88
27	90272A189	50/pk	Machine Screw screw 8-32/3/16" long	Firmed	3/12/18	50 Ea	0 Ea	50 Ea	\$0.0608/Ea	\$3.04
Grand Total:										\$2,018.72

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/8/18 11:27 AM dart.lavoie.chan@plex.com



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO039238

Order Placed By
Chantal Lavoie

McMaster-Carr Number
8348265-02

Page 1 of 1

03/08/2018

Line	Product	Ordered	Shipped
1	92311A639 18-8 Stainless Steel Cup-Point Set Screw, 3/8"-24 Thread, 1" Long, Packs of 10	25 Packs	25
2	91525A120 316 Stainless Steel Washer, Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25	2 Packs	2
3	92311A564 18-8 Stainless Steel Cup-Point Set Screw, 1/4"-28 Thread, 1" Long, Packs of 50	4 Packs	4
9	90128A249 Zinc-Plated Alloy Steel Socket Head Screw, M5 x 0.8 mm Thread, 25 mm Long, Packs of 100	1 Pack	1
20	92196A345 18-8 Stainless Steel Socket Head Screw, 5/16"-24 Thread Size, 1-3/4" Long, Packs of 10	20 Packs	20

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Shipped separately from our Chicago warehouse on 03/08

6	98378A909 Precision-Sized Flat-Head Core Pin Blanks, 0.129" Diameter, 2-1/2" Long	12 Each	12
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